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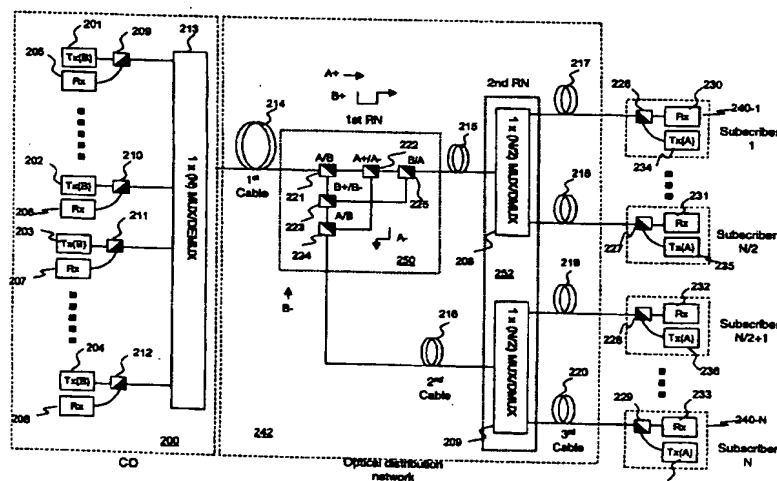
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(54) Title: **WAVELENGTH DIVISION MULTIPLEXING PASSIVE OPTICAL NETWORK HAVING MULTIPLE BRANCHES OF OPTICAL DISTRIBUTION**



(57) Abstract: Various methods and apparatuses are described for a wavelength division multiplexing passive optical network (WDM-PON) that performs bi-directional communication. The WDM-PON may include two or more remote distribution nodes in between a central office and the most distant optical network unit. Each remote distribution node is located in a physically separate location. A first remote distribution node has two or more optical network units connected to the first remote distribution node. Each remote node separates one or more wavelength channels from a composite optical signal distributed through that remote distribution node.



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